

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of claims:

- 1 1-79. (canceled)
- 1 80. (previously presented) A method of manipulating digital video data comprising:
 - 2 accessing digital audio-visual data, representing an audio-visual work and
 - 3 including data for a plurality of video frames;
 - 4 determining a start position for frame data representing each of the
 - 5 plurality of frames;
 - 6 generating tag data including data representing the start position and other
 - 7 frame related data for each of the plurality of frames; and
 - 8 storing the tag data separate from the digital audio-visual data.
- 1 81. (previously presented) The method of claim 80, wherein the tag data includes a time
- 2 value for each frame.
- 1 82. (previously presented) The method of claim 80, wherein the digital audio-visual data
- 2 further includes non-video data and the tag data includes data referencing the non-
- 3 video data.
- 1 83. (previously presented) The method of claim 80, wherein the other frame related data
- 2 includes data representing an end position for each frame.
- 1 84. (previously presented) The method of claim 80, wherein the digital audio-visual data
- 2 represents different types of frames and the other frame related data includes data
- 3 indicating a frame type for each of the video frames.
- 1 85. (previously presented) The method of claim 84, wherein the digital audio-visual data
- 2 is MPEG data.
- 1 86. (previously presented) The method of claim 85, wherein the tag data includes, for
- 2 each video frame (F, G), state data representing a state of one or more state
- 3 machines.

1 87. (previously presented) The method of claim 80, wherein the tag data is generated as
2 the audio-visual work is displayed.

1 88. (previously presented) The method of claim 87, wherein the tag data is saved as a
2 separate file.

1 89. (previously presented) The method of claim 80, wherein the digital audio-visual data
2 is stored in multiple storages.

1 90. (previously presented) The method of claim 80, wherein the digital audio-visual data
2 is stored remote from where it is displayed.

1 91. (previously presented) The method of claim 90, wherein the digital audio-visual data
2 is communicated over a network to the location where it is displayed.

1 92-110. (withdrawn)

1 111. (previously presented) The method of claim 80, further comprising:
2 displaying the audio-visual work in accordance with a set of streaming
3 constraints;
4 receiving a signal indicating a relaxation of said streaming constraints;
5 in response to said signal, accessing a set of improved quality information,
6 said improved quality information comprising an improved quality version of at
7 least a subset of the information in said audio-visual work; and
8 displaying at least a subset of the improved quality information.

1 112. (previously presented) The method of claim 111, wherein said accessing the set of
2 improved quality information comprises:
3 determining a first reference point in the audio-visual work;
4 correlating the first reference point with a second reference point in the set
5 of improved quality information; and
6 retrieving the subset of the improved quality information based on said
7 second reference point.

1 113. (previously presented) The method of claim 111, wherein the set of improved
2 quality information comprises a still image.

1 114. (previously presented) The method of claim 113, wherein the still image takes the
2 form of an image file selected from the group consisting of a JPEG file, a GIF
3 file, a BMP file, a TIFF file, a PIC file, a MAC file and a PCD file.

1 115. (previously presented) The method of claim 111, wherein the set of improved
2 quality information comprises preprocessed audio-visual information ready to be
3 streamed.

1 116. (previously presented) The method of claim 111, wherein the signal indicates that
2 information is to be displayed at a slower presentation rate.

1 117. (previously presented) The method of claim 116, wherein said displaying at least a
2 subset of the set of improved quality information comprises displaying a plurality
3 of still images.

1 118. (previously presented) The method of claim 116, further comprising sending the
2 subset of the set of improved quality information to a client at an appropriate
3 streaming rate to accommodate the slower presentation rate.

1 119. (previously presented) The method of claim 111, wherein the signal indicates that
2 information display is to be paused.

1 120. (previously presented) An audio-visual information delivery system for managing
2 the display of an audio-visual work comprising:

3 a source of digital audio-visual data representing of an audio-visual work
4 for display, the digital data including frame data representing a plurality of the
5 video frames;

6 a tag data generator for generating, for each video frame, tag data
7 representing a start position and other frame related data for each of the plurality
8 of frames; and

9 a storage for the tag data, separate from the digital audio-visual data
10 source.

1 121. (previously presented) The system of claim 120, wherein the tag data includes a
2 time value for each frame.

- 1 122. (previously presented) The system of claim 120, wherein the digital audio-visual
2 data further includes non-video data and the other tag data includes data
3 referencing the non-video data.
- 1 123. (previously presented) The system of claim 122, wherein the other frame related
2 data includes data representing an end position for each frame.
- 1 124. (previously presented) The system of claim 122, wherein the digital audio-visual
2 data represents different types of frames and the other frame related data includes
3 data indicating a frame type for each the video frame.
- 1 125. (previously presented) The system of claim 124, wherein the digital audio-visual
2 data is MPEG data.
- 1 126. (previously presented) The system of claim 125, wherein the tag data includes, for
2 each video frame (F, G), state data representing a state of one or more state
3 machines.
- 1 127. (previously presented) The system of claim 122, wherein the tag data is generated
2 as the audio-visual work is displayed.
- 1 128. (previously presented) The system of claim 127, wherein the tag data is saved as a
2 separate file.
- 1 129. (previously presented) The system of claim 122, wherein the digital audio-visual
2 data source includes multiple separate storages.
- 1 130. (previously presented) The system of claim 122, wherein the digital audio-visual
2 data source includes storage remote from where the audio-visual work is
3 displayed.
- 1 131. (previously presented) The system of claim 130, wherein the digital audio-visual
2 data is communicated over a network from the audio-visual storage to the location
3 where it is displayed.
- 1 132-150. (withdrawn)

1 151. (previously presented) The system of claim 120, wherein the system is configured
2 to:

3 display the audio-visual work in accordance with a set of streaming
4 constraints;

5 receive a signal indicating a relaxation of said streaming constraints,
6 wherein in response to the signal, the system accesses a set of improved quality
7 information, said improved quality information comprising an improved quality
8 version of at least a subset of the information in said audio-visual work; and

9 display at least a subset of the improved quality information.

1 152. (previously presented) The system of claim 151, wherein the system accesses the
2 set of improved quality information by determining a first reference point in the
3 audio-visual work, correlating the first reference point with a second reference
4 point in the set of improved quality information and retrieving the subset of the
5 improved quality information based on said second reference point.

1 153. (previously presented) The system of claim 151, wherein the set of improved
2 quality information comprises a still image.

1 154. (previously presented) The system of claim 153, wherein the still image takes the
2 form of an image file selected from the group consisting of a JPEG file, a GIF
3 file, a BMP file, a TIFF file, a PIC file, a MAC file and a PCD file.

1 155. (previously presented) The system of claim 151, wherein the set of improved
2 quality information comprises preprocessed audio-visual information ready to be
3 streamed.

1 156. (previously presented) The system of claim 151, wherein the signal indicates that
2 information is to be displayed at a slower presentation rate.

1 157. (previously presented) The system of claim 156, wherein at least a subset of the set
2 of improved quality information are displayed by displaying a plurality of still
3 images.

1 158. (currently amended) The system of claim 156, wherein the subset of the set of
2 improved quality information are ~~send~~sent to a client at an appropriate streaming rate
3 to accommodate the slower presentation rate.

1 159. (previously presented) The system of claim 151, wherein the signal indicates that
2 information display is to be paused.